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CLOSED LOOP TRANSMIT DIVERSITY MODE 1. Akhmad Unggul Priantoro, Minoru Okada
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Transmission power control circuit using W-CDMA method - Patent ...

Conventionally, in transmission power control (hereinafter refereed to as TPC), SIR of a
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Capacity Evaluation of a Forward Link DS-CDMA Cellular System with Fast TPC Based on
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CDMA receiving apparatus with transmission power control using ...

The CDMA receiving apparatus according to claim 1, wherein said generating circuit is
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Abstract;The outage probability of a forward link DS-CDMA cellular system with fast transmit
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System Model 2.1 W-CDMA Downlink Power Control In W-CDMA system, ... On the contrary, if the SIR value is greater, the MS sets TPC to -1 and transmits it. ...

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DS-CDMA links periodically transmitting time multiplexed. pilot symbols. Transmit power control. (TPC). I. SIR-based closed loop. TPC. Pilot. symbols ...

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Meanwhile, in the W-CDMA system, the pilot symbol transmitted by the base The TPC generator 113 sets 0 or 1, as TPC data, if the SIR calculated in the ...

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CDMA receiver, and searcher in a CDMA receiver - Patent 7209512

PILOT is used in synchronous detection on the receiving side and in SIR measurements;

TPC is used in transmitting power control; TFCI transmits the data ...

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time position of the previous slot is used for weight updating;. the slot length in symbols is N_p (pilot). +. N_d . (data including. TPC command). ...

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"Radio Transmission Systems". In: W-CDMA

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Furthermore, in the above mentioned state-of-the-art method the power estimates of the pilot and data symbols are given equal weights and the sent TPC ...

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weighting said pilot and data symbols, and. determining if said TPC command has been correctly received, and. giving a SIR estimation (5.50) depending on ...

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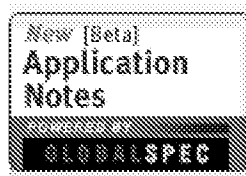
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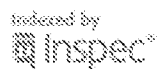
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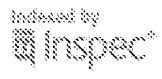
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 Jonsson, Elias (TELEFONAKTI EBOLAGET LM ERICSSON (publ 2004
 patno: EP1408635
 ...robust and precise SI R estimation under...the transmitted data.
 in mobile WCDMA systems. For example...interference ratio (SI R)
 signals...commands, that is, TPC (Transmit Power...suggested that
 used...difference between the data symbols and the...
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[WCDMA SYSTEMS](#)
 JONSSON, Elias (TELEFONAKTI EBOLAGET LM ERICSSON (pu
[TREATY APPLICATION](#), Apr 2004
 patno: WO04034614
 ...interference ratio (SI R) of a signal...Multiple Access (WCDMA) v
 and data symbols...Control (TPC) command, and giving a SI R est
 (WCDMA) wireless...Control (TPC) verification...means for SI R es
 data symbols...
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- ☒ 3. [METHOD FOR SUPPORTING PILOT BOOST IN E-DCH OF WCDMA](#)
 LEE, Ju-Ho / CHOI, Sung-Ho / DU, Gaoke / LI, Xiaoqiang / Z
 ELECTRONICS CO., LTD. ; BEIJING SAMSUNG TELECOM R & I
[COOPERATION TREATY APPLICATION](#), May 2005
 patno: WO05048491
 ...the received SI R within the...the existing WCDMA system. Data
 the SI R that the Node...measuring the pilot, or it can...the measu
 techniques...sends the "TPC UP" command...system, the SI R per s
 standard...
 Full text available at patent office. For more in-depth search
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- ☒ 4. [Method and device for estimating a signal to interference ratio \(sir\)](#)
 Jonsson, Elias, [UNITED STATES PATENT AND TRADEMARK OFFIC](#)
 Jan 2006
 patno: US20060014487
 ...interference ratio (SI R) of a signal...Multiple Access (WCDMA) v
 and data symbols...Control (TPC) command, and giving a SI R est
 (WCDMA) wireless...Control (TPC) verification...means for SI R es
 and data symbols...
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- ☒ 5. [1 26.01.2002 WCDMA Physical Layer WCDMA Physical Layer \(Chap](#)
 Jan 2002
 ...DPCCH) *j Data (DPDCH) Control...26.01.2002 WCDMA Physica
 FBI, TPC. Pilot – channel estimation + SI R estimate...in the DL TI
 (Transmission...DataDPDCH DPCCH PILOT TFCI FBI...26.01.2002
 Data Channel...
[\[http://www.comlab.hut.fi/opetus/238/lecture6_ch6.pdf\]](http://www.comlab.hut.fi/opetus/238/lecture6_ch6.pdf)

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- ☐ 6. [PILOT SIGNAL TRANSMITTING METHOD AND WIRELESS COMMUNICATIONS SYSTEM ALLOWING HIGHLY PRECISE MEASUREMENT OF RECEPTION QUALITY](#)
 KURODA, Nahoko / LEE, Jinsock / HAMABE, Kojiro / USHIROKAWA (USHIOKAWA CORPORATION), *EUROPEAN PATENT APPLICATION*, Apr 2007
 patno:EP1777841
 ...DPCCH contains: the pilot signal, TFCH, FCH, and TPC bits. The purpose is to be used for channel estimation and SIR measurement. TFCH...transmission form and...downlink circuit. TPC is a field for...control signals. In WCDMA Full text available at patent office. For more in-depth search [similar results](#)
- ☐ 7. [Method For Supporting Pilot Boost In E-Dch Of Wcdma](#)
 Lee, Ju-Ho / Choi, Sung-Ho / Du, Gaoke / Li, Xiaoqiang / Zhang, Jie / *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*
 patno:US20070211684
 ...generates the TPC commands...SIR, the pilot power boosting especially...simply as FDD) WCDMA system...Physical Data Channel (PDCH) transport...simply as TPC). [0007...because the pilot is a known...easily...0010] 102D TPC which is...explained. In the WCDMA system Full text available at patent office. For more in-depth search [similar results](#)
- ☐ 8. [Pilot Signal Transmission Method and Radio Communication System of Reception Quality with High Accuracy](#)
 Kuroda, Nahoko / Lee, Jinsock / Hamabe, Kojiro / Ushirokawa, Kojiro / *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*
 patno:US20070253450
 ...EUDCH in WCDMA as an example...transmitting the data of individual user (Transmission...reception SIR of pilot signals and...to measure SIR described...the target SIR and then...and sends a TPC signal instructing signals that...when the data size indicated... Full text available at patent office. For more in-depth search [similar results](#)
- ☐ 9. [ITERATIVE DECODING WITH INTENTIONAL SNR/SIR REDUCTION](#)
 NILSSON, Johan (Telefonaktiebolaget L M Ericsson (publ)), *TREATY APPLICATION*, Nov 2007
 patno:WO07122177
 ...base stations send TPC commands to users...vice versa. The purpose is to cause...dedicated physical data channels (DPDCHs...signaling (e.g. TPC commands, etc.). WCDMA terminology is...for instance, SIR Full text available at patent office. For more in-depth search [similar results](#)
- ☐ 10. [Quality of Heterogeneous Services with Distributed Resource Management](#)
 Das, Pratik / pratik9@gmail.com , Jan 2006
 ...function PDU Protocol data unit PRACH Physical...protocol SDU Serving GPRS support node SIR Signal to interference...TM Transp Transmission power...Variable spreading gain WCDMA Wideband Code Transmission Channels... Full text thesis available via NDLT (Australasian Digital Theses) [similar results](#)

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 Jonsson, Elias (TELEFONAKTI EBOLAGET LM ERICSSON (publ
 2004
 patno: EP1408635
 ...and precise SI R estimation...transmitted data. (Background...ir
 systems...interference ratio (SI R) of received...that is, TPC (Trans
 be...estimates of the pilot and data symbols are given equal weig
 command is...inaccurate SI R estimation...
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 SOFT-HANDOFF
 OH, Hyukjun / SUBRAHMANYA, Parvathanathan / KASTURI,
 Messay / HSU, Chih-Ping / RIDDLE, Christopher / SENDONA
 (QUALCOMM INCORPORATED), *PATENT COOPERATION TREATY*
 patno: WO04077695
 ...derived based on a TPC threshold and possibly...scaling factors.
 a...quantities (e.g., SI R, EC/Jo, ECINT, and...transmissions (e.g., T
 received...derived based on a weight (e.g., a weighted...
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 Das, Pratik / pratik9@gmail.com , Jan 2006
 ...function PDU Protocol data unit PRACH Physical...protocol SDU S
 Serving GPRS support node SI R Signal to interference...TM Transp
 Transmission power...Variable spreading gain WCDMA Wideband C
 Transmission Channels...
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- ☐ 4. [METHOD AND APPARATUS FOR COMMUNICATION CHANNEL ERROF](#)
 ANDERSSON, Lennart / WANG, Yi-Pin, Eric / BOTTOMLEY, Gi
 (TELEFONAKTI EBOLAGET L M ERICSSON (publ)), *PATENT CO*
APPLICATION, Nov 2006
 patno: WO06122779
 ...error rates-i. e., data that includes or is...Without coded or know
 no explicit control...the Wideband CDMA (WCDMA) standards inclu
 TPC bits), but does not include data with error correction...
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 Alam, Fakhrul , Nov 2002
 ...Beamformer-Rake Receiver for WCDMA Uplink...Beamformer-Ra
 Uplink...109 7.3 Pilot Symbol Assisted DMI-based...Beamformer-R
 110 7.4...based on Measurement Data...20 2.5b Different w e
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- ☐ 6. [Method and device for power control in a wireless communication s](#)

Andersson, Lennart / Bernhardsson, Bo / Lindoff, Bengt / N
(TELEFONAKTIEBOLAGET LM ERI CSSON (publ)), *EUROPEAN P*
2006

patno:EP1672813

...updates the SIR reference...for the 3GPP WCDMA system. A...u
105...carries the data bits, the TPC command, the pilot bits and a
pilot...determined by the WCDMA spreading...often. The SIR refe

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- ☐ 7. [Determination of a channel estimate of a transmission channel](#)
Jonsson, Elias / Nilsson, Johan / Lindoff, Bengt (TELEFONAKTIEBOLAGET LM ERI CSSON (publ)), *EUROPEAN PATENT*, Nov 2004

patno:EP1480350

...error contributions is weighted by a respective weighting factor
weighting factors are selected...information including pilot symbols
(TPC) commands, etc. In...therefore, also the SIR estimation perfor

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- ☐ 8. [Methods and devices for adjustment of transmission parameters](#)
Nilsson, Johan / Lindoff, Bengt (TELEFONAKTIEBOLAGET LM ERI CSSON (publ)), *EUROPEAN PATENT APPLICATION*, Jun 2006

patno:EP1672812

...specified in WCDMA, such as the...Dedicated Physical Data Channel
Control (TPC) symbols, Transport...for traffic data transmission...that
that...notations from WCDMA are merely examples...signal-to-interference
measure...generates combining weights based on channel...

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ANDERSSON, Lennart / NILSSON, Johan / LINDOFF, Bengt /
(TELEFONAKTIEBOLAGET LM ERI CSSON (PUBL)), *PATENT CO APPLICATION*, Jun 2006

patno:WO06066843

...value to the SIR reference value...Power Control (TPC) command
system the...a number of data bits are typically...updates the SIR
3GPP WCDMA system. The...time. Thus the TPC commands that...

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- ☐ 10. [Method and apparatus for communication channel error rate estimation](#)
Andersson, Lennart / Wang, Yi-Pin Eric / Bottomley, Gregor
PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov 2006

patno:US20060262754

...about the targeted SIR through the use...that includes data (using
pilot information to...because with only one TPC symbol |(ghf)est.
bits on the CPICH and TPC bits. Further, an SIR estimate utilizing.

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 2004
 patno: EP1408635
 ...and precise SI R estimation...transmitted data. (Background...ir
 systems...interference ratio (SI R) of received...that is, TPC (Trans
 be...estimates of the pilot and data symbols are given equal weig
 command is...inaccurate SI R estimation...
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 Dec 2002
 ...Antenna # 2 STTD encoded data on P-CC PC H Time...Transmit I
 WCDMA • space-time coding...coeff. Channel encoder Data Interle
 STTD encoder STTD encoder...mode2 only) amplitude weighting
 [http://www.telecomlab oulu.fi/home/coursematerial/MIMO...]
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- ☐ 5. [METHOD AND APPARATUS FOR REDUCING INTERFERENCE IN A WI](#)
 SYSTEM
 Willenegger, Serge / Vayanos, Alkinoos Hector / Malladi, Du
 Edward G. / Grilli, Francesco / Blanz, Josef (QUALCOMM INC
 STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATI
 patno:US20080025264
 ...information, such as known pilot bits, Transmit Power Control (T
 an...Dedicated Physical Data Channel (DPDCH...having NTPC bits c
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 STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Nov
 patno:US7292552
 ...information, such as known pilot bits, Transmit Power Control (T
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patno:EP1483845
...information, such as known pilot bits, Transmit Power Control (T an...Dedicated Physical Data Channel (DPDCH...portion having N (and...DPCCH portion of PILOT having N (PILOT...various aspects which when...
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-  8. Equalization in WCDMA Terminals [PDF-2MB]
Dec 2003
...Although the WCDMA standard is emphasized...employing coher and...using a common pilot channel and for...designs for low data for WCDMA Systems (ABRAS...channel k with STTD ($M_{k,j} \times 1$) bk for transmit antenna...
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WILLENEGGER, Serge / MALLADI, Durga P. / BLANZ, Josef J INCORPORATED), *PATENT COOPERATION TREATY APPLICATION*, patno:WO03079577
...information, such as known pilot bits, Transmit Power Control (T an...Dedicated Physical Data Channel (DPDCH...having NTPC bits c of...DPCCH portion of PILOT having NPILOT bits...various aspects which when...
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-  10. METHOD AND APPARATUS FOR REDUCING INTER-CHANNEL INTER COMMUNICATION SYSTEM EMPLOYING A NON-PERIODIC INTERLE
WILLENEGGER, Serge / MALLADI, Durga P. / BLANZ, Josef J INCORPORATED), *PATENT COOPERATION TREATY APPLICATION*, patno:WO03079601
...information, such as known pilot bits, Transmit Power Control (T an...Dedicated Physical F Data Channel (DPDCH...having NTPC bits of...DPCCH portion of PILOT having NPILOT bits...various aspects which when...
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Effective Date: 04/05/2005

Class/Subclass: 375/346.000

Application Received: 04/05/2005

Lost Case: NO

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Interference Number:

Issue Date: 00/00/0000

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Attorney Docket Number: P16694US2

Third Level Review: NO

Secrecy Order: NO

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION

Status Date: 11/15/2005

Confirmation Number: 2983

Oral Hearing: NO

Title of Invention: METHOD AND DEVICE FOR ESTIMATING A SIGNAL TO INTERFERENCE RATIO (SIR) IN WCDMA SYSTEMS

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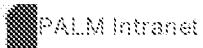
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Inventor Information for 10/530370

Inventor Name	City	State/Country
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10426254	7239677	150	04/29/2003	METHOD AND APPARATUS FOR SOFT SYMBOL SCALING	JONSSON, ELIAS
10445759	7184791	150	05/27/2003	METHODS, RECEIVERS, AND COMPUTER PROGRAM PRODUCTS FOR DETERMINING TRANSMISSION POWER CONTROL COMMANDS USING BIASED INTERPRETATION	JONSSON, ELIAS
10457913	7177602	150	06/10/2003	ELECTRONIC DEVICES HAVING AUTOMATIC FREQUENCY CONTROL SYSTEMS AND METHODS AND COMPUTER PROGRAM PRODUCTS FOR OPERATING THE SAME	JONSSON, ELIAS
10499071	7366230	150	06/15/2004	POWER CONTROL IN MOBILE RADIO COMMUNICATIONS SYSTEMS	JONSSON, ELIAS
10523987	Not Issued	71	10/21/2005	Receiver and method for decoding of truncated data	JONSSON, ELIAS
10527366	Not Issued	30	07/27/2005	Method for path-seacher scheduling	JONSSON, ELIAS
10527896	Not	30	09/28/2005	Method and device for detection of	JONSSON, ELIAS

	Issued			a umts signal	
10530370	Not Issued	30	09/19/2005	Method and device for estimating a signal to interference ratio (sir) in wcdma systems	JONSSON, ELIAS
10542671	Not Issued	30	12/28/2005	Truncation and level adjustment of rake output symbols	JONSSON, ELIAS
10557137	Not Issued	30	07/09/2006	Determination of a channel estimate of a transmission channel	JONSSON, ELIAS
10595115	Not Issued	30	08/16/2006	Positioning of a path searcher window in a cdma receiver	JONSSON, ELIAS
10608241	Not Issued	161	06/27/2003	Systems, methods of operating, and computer program products for selecting delays for a rake receiver based on signal to interference ratios and/or powers	JONSSON, ELIAS
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<u>60346745</u>	Not Issued	159	01/07/2002	Power control in mobile radio communications systems	JONSSON, ELIAS
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60671099	Not Issued	159	04/14/2005	Cell selection for MBMS	JONSSON, ELIAS
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